

ABSTRACT

Disclosed herein is a mobile robot, and system and method for autonomous navigation of the same. The mobile robot includes a communications module for
5 transmitting a light source control signal to selectively control light sources of a landmark array to flicker, an image processing module for calculating image coordinates of the light sources from an image signal, a pose calculation module for calculating position coordinates of the mobile robot, a motion control module for calculating a moving path and controlling the mobile robot to move along the moving
10 path, and a main control module for controlling interoperations of the modules and general operations of the mobile robot.